

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trad mark Offic

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENT	TOR		ATTORNEY DOCKET NO.
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09/328,183	06/08/9	9 PARISH IV		0	27889-00037
		QM02/0731	一 [EXAMINER
STANLEY R. MOORE				ATKINSON,C	
JENKENS &	GILCHRIST	P.C.	.[ART UNIT	PAPER NUMBER
1445 ROSS SUITE 3200	,			3743	18
DALLAS TX	75202-2799			DATE MAILED:	07/31/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

<u> </u>	Application No.	Applicant(a)	
,	Application No. Applicant(s) 09/328,/83 Parish etal.		
Office Action Summary	Examiner	Group Art Unit	
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—The MAILING DATE of this communication ap	pears on the cover sheet b	eneath the correspondence address	
Period for Response			
A SHORTENED STATUTORY PERIOD FOR RESPONSE MAILING DATE OF THIS COMMUNICATION.	S SET TO EXPIRE	MONTH(S) FROM THE	
 Extensions of time may be available under the provisions of 37 C from the mailing date of this communication. If the period for response specified above is less than thirty (30) of the communication. If NO period for response is specified above, such period shall, by Failure to respond within the set or extended period for response. 	ays, a response within the statuto default, expire SIX (6) MONTHS	ry minimum of thirty (30) days will be considered time from the mailing date of this communication.	
Status	- / /		
Responsive to communication(s) filed on	12/01		
☐ This action is FINAL .	•		
 Since this application is in condition for allowance excaccordance with the practice under Ex parte Quayle, 			
Disp sition of Claims			
(Claim(s) /-38		is/are pending in the application.	
☐ Claim(s)	ad38	is/are withdrawn from consideration.	
□ Claim(s)		is/are allowed.	
Claim(s) 1-4, 6, 8-11and	-1-37	is/are rejected.	
□ Claim(s)			
		are subject to restriction or election	
☐ Claim(s)		requirement.	
Application Papers			
	wing Review, PTO-948.	□ disapproved.	
Application Papers ☐ See the attached Notice of Draftsperson's Patent Dra	wing Review, PTO-948. is □ approved 〔	□ disapproved.	
Application Papers ☐ See the attached Notice of Draftsperson's Patent Dra ☐ The proposed drawing correction, filed on	wing Review, PTO-948. is □ approved 〔	□ disapproved.	
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Response to Amendment

Claims 5, 7, 12-20 and 38 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in Paper No. 11. Claims 5, 7 and 12-13 do not read on the elected species but rather on non-elected species B.

Applicant's arguments filed 5/2/2001 have been fully considered but they are not persuasive.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. § 103, the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 C.F.R. § 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of potential 35 U.S.C. § 102(f) or (g) prior art under 35 U.S.C. § 103.

Claims 1-3, 6, 8-11 and 21-37 are rejected under 35 U.S.C. § 103 as being unpatentable over Fox et al. in view of Hamilton et al.(*037).

The patent of Fox et al. in Figures 1-6 discloses all the claimed features of the invention with the exception of the channels being micro-channels and inlet and outlet end caps.

Regarding "a low profile"/the size of the member and the channel size, a change in size is generally recognized as being within the level of ordinary skill in the art since such a modification would have involved a mere change in the size of a component. *In re Rose*, 105 USPQ 237 (CCPA 1955).

The patent of Hamilton et al.('037). in Figures 12-13 discloses a heat exchanger having a plurality of micro-channels and inlet and outlet end caps for the purpose of increasing the heat transfer rate away from an electronic device and increasing the heat transfer efficiency of the heat exchanger. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to employ in Fox et al. the heat exchanger having a plurality of micro-channels and inlet and outlet end caps for the purpose of increasing the heat transfer rate away from an electronic device and increasing the heat transfer efficiency of the heat exchanger as disclosed in Hamilton et al.('037).

Claim 4 is rejected under 35 U.S.C. § 103 as being unpatentable over Fox et al. in view of Hamilton et al.('037). as applied to claims 1-3, 6, 8-11 and 21 above, and further in view of applicant's omission of known/convention prior art.

The patent of Fox et al. as modified, discloses all the claimed features of the invention

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with the exception of a second plated metal.

Applicant's omission of known/convention prior art in his specification on page 7 discloses that it is known to have a second material between the heat exchanger and the component for the purpose of reducing thermal resistances and attaching the component to the heat exchanger. The material being metal is considered to be an obvious design expedient. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to employ in Fox et al. as modified, a second material between the heat exchanger and the component for the purpose of reducing thermal resistances and attaching the component to the heat exchanger as known by applicant's omission of known/convention prior art.

Response to Arguments

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). The device of the combination of Fox et al. and Hamilton et al. teaches a unitary member having a plurality of microchannels. Regarding "a low profile"/the size of the member and the channel size, a change in size is generally recognized as being within the level of ordinary skill in the art since such a modification would have involved a mere change in the size of a component. *In re Rose*, 105 USPQ 237 (CCPA 1955).

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Atkinson whose telephone number is (703) 308-2603.

July 30, 2001

CHRISTOPHER ATKINSON PRIMARY EXAMINER